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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

50X1-HUM

COUNTRY East Germany

REPORT

SUBJECT Information on RFT Fernmeldewerk Leipzig Including 1954 ZAFT Development Tasks

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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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1. The official name of the establishment is RFT Fernmeldewerk Leipzig. It was formerly known as Opta-Sternradio. The plant also includes the ZLU (Zentrallaboratorium fuer Uebertragungstechnik) (Central Laboratory for Transmission Engineering). It is located at Leipzig O27, Melscherstrasse 7. Telephone 64561. A branch (instrument) factory is at Leipzig W34, Strasse der Komsomol 155; Telephone 40090. The factory produces telecommunications equipment and conducts work, including development work, in the field of transmission engineering. This program was adopted in 1948; between 1945 and 1948, the plant had produced radio apparatus. In 1952, the factory employed 1703 workers, of whom 1071 were engaged directly in production; about 80% of these were women. 208 apprentices were being trained. Planned figures for 1953 were 1836, 1148, and 225, respectively.

2. The following equipment is manufactured:

   a. Relays for ME-8.

   b. Drop-indicator panel switchboards.

   c. "OB" type field telephones. The entire 1952 production went to the BfW (Buero fuer Wirtschaftsfragen). In 1953, the GST (Gesellschaft fuer Sport und Technik = Cadre Corps) will take approximately 400 and in 1954, 200.

   d. Carrier frequency (TFc) (Traegerfrequenz) equipment.

      (1) Four types have been developed:

          TFc-1, on 5.5 kcs

          TFc-2, on 11 kcs

          TFc-3, on 16.5 kcs

          TFc-4, on 22 kcs. 1

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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

(2) This equipment is mainly exported to the USSR, Poland, Czechoslovakia, Hungary, Rumania, and Bulgaria; some is for the Red Army troops in East Germany and, recently, the KVP (the East German army). The devices are sprayed grey and packed in carrying cases. Each set weighs about 62.5 kgs. The plant personnel believe that the Polish orders actually go to the Soviet Union.[2]

(3) Great difficulties were met in producing carrier frequency sets in 1953, mainly in the production of the annular cores, which need a good quality carbonyl iron. Lack of this substance stopped all work for a time; in mid-1953, however, the Leuna Chemical Works started to supply carbonyl iron. The quality was entirely satisfactory, and work was resumed.

e. V-12 cabled multi-channel telephony sets. Frequency 12-120 kcs.

f. Teleprinter parts, Gabelgestell, measuring bridges, etc, etc.

3. In early September 1953, there were particular shortages of carbonyl iron powder, germanium diodes, hand generators (Kurbelinduktoren) E3 and D1 sheets, flat type relays, telegraph relays 0374, [redacted] 50X1-HUM

4. The 1954 development program includes the development of the following items, with production in each case of a pilot series:

[redacted]

Title
Attenuation measurement installation.
LF amplifier apparatus (for radio use).
Carrier frequency system Z3/6 ("comparable to 4 x TFc 1").
Telegraphy balance tester.
Carrier frequency apparatus DS 103 ("comparable to 1 x TFc plus 20%").
AC telegraphy WT and medium frequency telegraphy MU.
Long distance dialing apparatus (for the East German Railroads and Post).
Further development of TF apparatus.
Interfering voltage minimizer.
Level measurement set KU 202/1.
Nonlinear attenuation measurement apparatus (Klirrdaempfungsmesseinrichtung) up to 30 kcs.
Narrow band level meter MU 205.
Medium frequency generator Gv 603.
LF narrow band level meter MU 209.
Reflection attenuation measuring instrument MX 402 and MX 403.
LF impedance bridge MZ 404.
LF level transmitter (Pegelgeber).
MT intermediate amplifier for telegraphy.
Carrier frequency system V 24.

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K4-33	Transmission installation for railroad sectional remote control (Streckenwerkfernsteuerung). 1 master and 20 sub-stations.
K4-35	Ferromagnetic constructional parts.
K4-37	Studio Kassetten (?) amplifier.

[redacted] Comments: 50X1-HUM

1. These are the carrier frequencies.

[redacted]

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